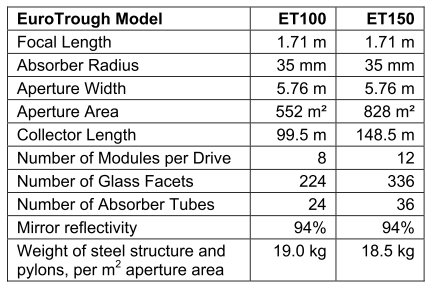
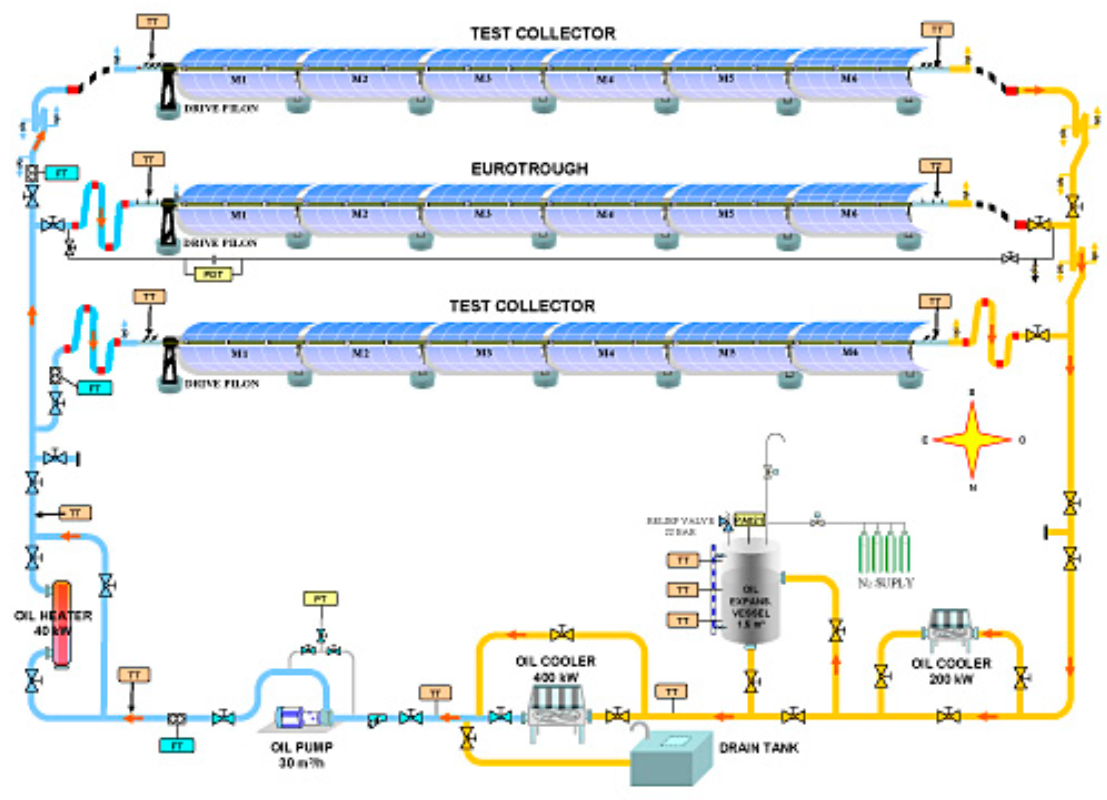
Data solar field Almeria :

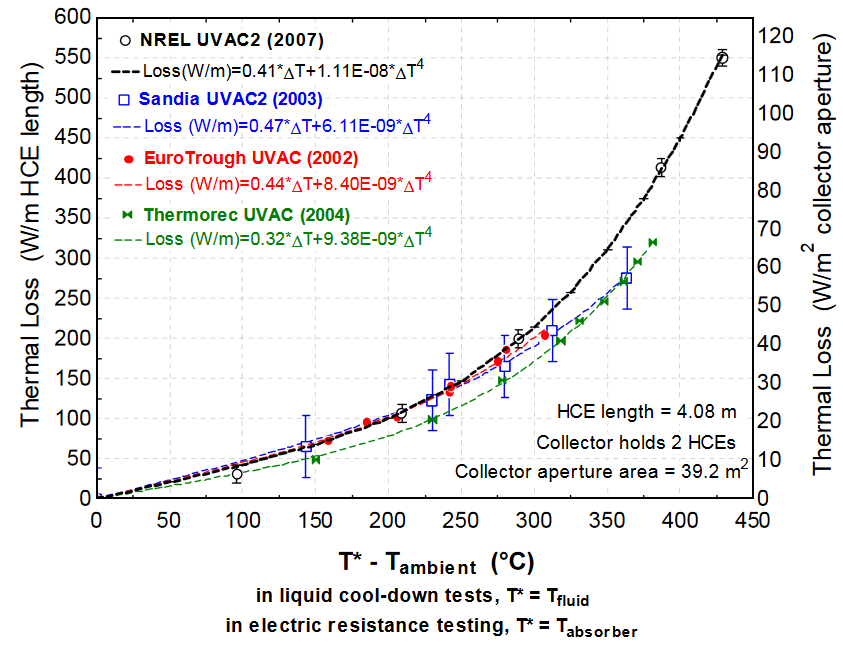
* HTF test loop erected in 1997
* Oriented East-West
* 18 bar maximum for HTF
* HTF : Syltherm 800
* Facility include :
  + 1m³ expansion tank (with nitrogen inertization)
  + Oil sump tank
  + Oil cooler (max 400 kWth)
  + Centrifugal pump (8.3 liter/sec max)
  + Electric oil heater
* Data Solar field :
  + 75m long
  + 4 Eurotrough first generation/2 second generation
  + 6 modules 12-m long 🡪 72 m
  + 18 receiver tube
  + Net aperture : 409.9m²
  + Absorber tube : UVAC (Universal Vacuum Collector, Solel)
    - UVAC properties :
      * 70 mm OD stainless tube + coating
      * Tube wall thickness = 2 mm
      * 115 mm OD antireflective evacuated tube
      * Glass wall thickness = 3 mm
      * 0.013 Pa vaacum (avoid convection)
      * Glass envelope transmittance : 0.96 (0.967 according rioglass website)
      * Coating absorptance : 0.95-96
      * Coating emmittance 0.15 or 0.091 at 400°C
    - There are already correlations for Q\_dot\_loss/m for UVAC2 (see Burkholder) and UVAC3
    - More technical info on <http://www.rioglass.com/?page_id=1925>

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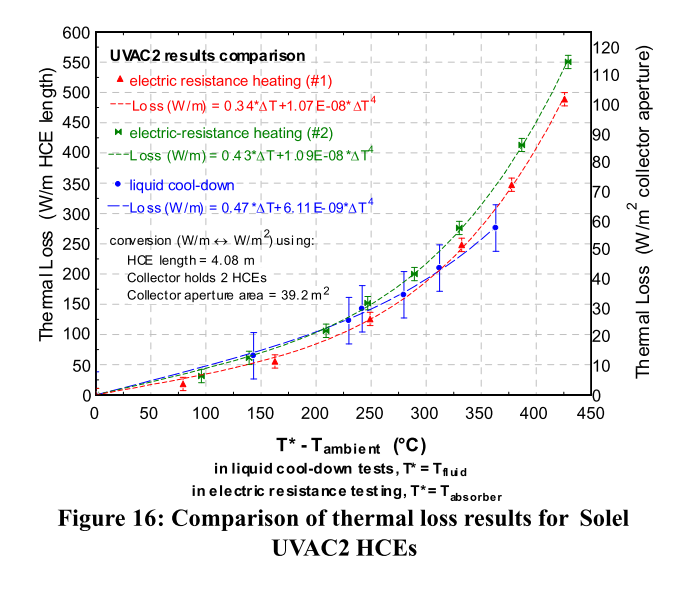
Source : PSA website

UVAC 1 and UVAC2 curves



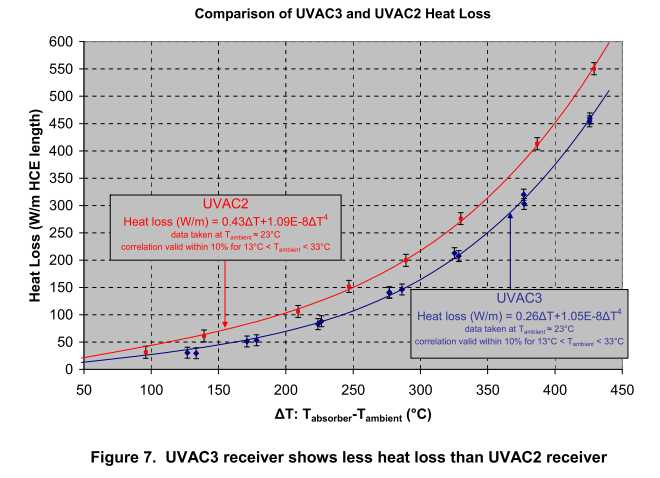
Source : <http://www.nrel.gov/docs/fy07osti/41423.pdf>

UVAC 2 curves

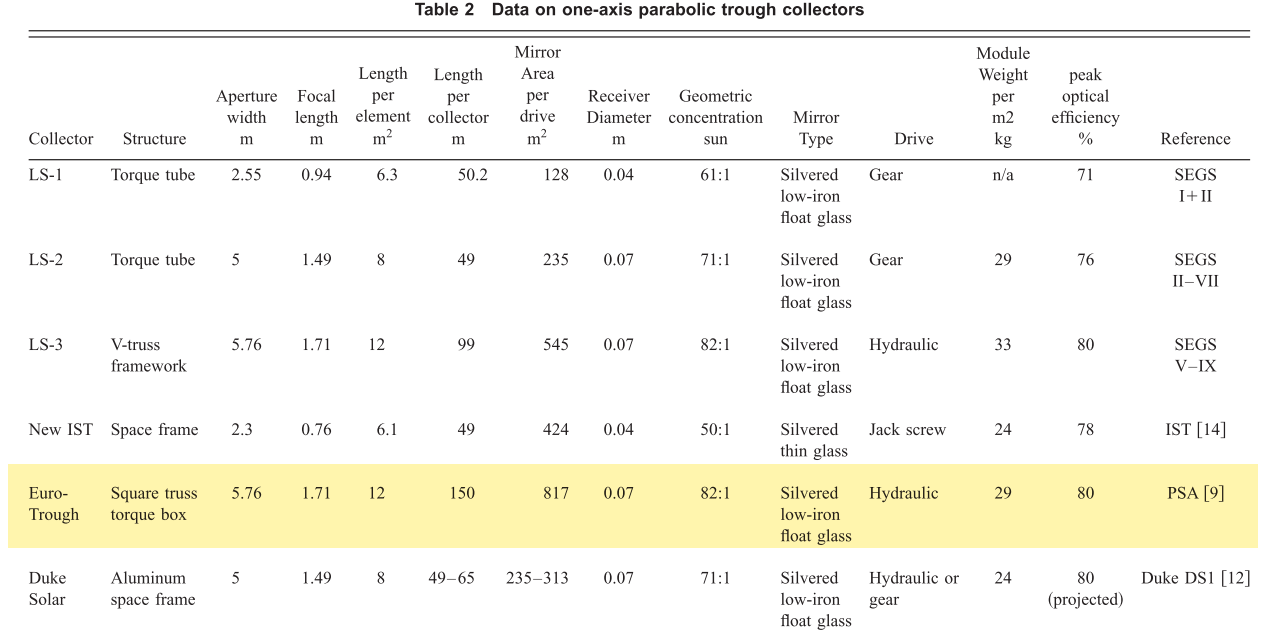


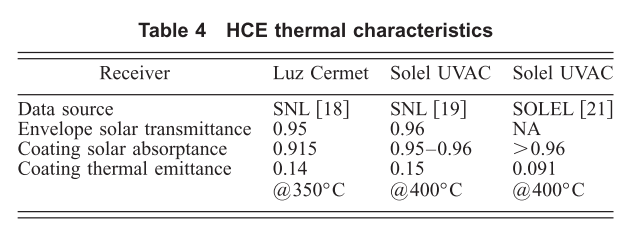
Source : burkholder (PTR testing)

UVAC3 and UVAC2 curves

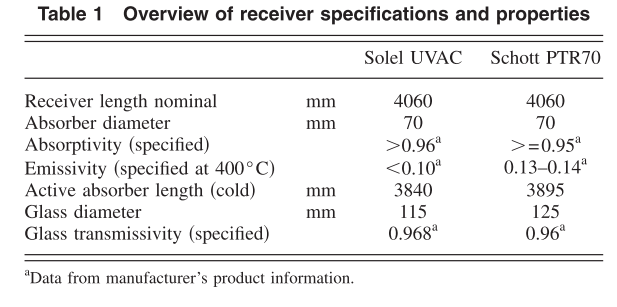


Source: burkholder UVAC3 report





Source : Price



Source : lupfert